REMARKS

Applicants submit that the added claims 45-51 are supported by the above-identified specification filed on December 31, 2001 and add no new matter to the specification, *see*, Specification, EXAMPLE XIII, Page 34. Therefore, the entry of the above-identified amendment is respectfully requested prior to examination on the merits.

Respectfully submitted,
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Clean Claim Sheet

45. (New) A method for a high-throughput functional screening of a plurality of polynucleotides comprising the steps of:

associating a first polynucleotide to a first non-human sperm cell through a first non-lipsome based linker in a first well on a plate;

simultaneously associating a *n*th polynucleotide to a *n*th non-human sperm cell through a *n*th non-lipsome based linker in a *n*th well on the plate, wherein *n* is at least 2;

fertilizing a first non-human egg cell with the first non-human sperm cell associated with the first polynucleotide through the first lipsome based linker to form a first zygote; and

simultaneously fertilizing a *n*th non-human egg cell with the *n*th non-human sperm cell associated with the *n*th polynucleotide through the *n*th lipsome based linker to form a *n*th zygote, wherein *n* is at least 2.

46. (New) The method of claim 45 wherein the non-lipsome based linker is selected from the group consisting of a peptide, a protein, a glycoprotein, and a carbohydrate.

47. (New) The method of claim 46 wherein the protein is an antibody.

48. (New) The method of claim 45 wherein the polynucleotide molecule is a DNA molecule.

49. (New) The method of claim 45 wherein the non-human sperm cell is selected from the group consisting of a mouse sperm cell, a cow sperm cell, a pig sperm cell, a chicken sperm cell, a sheep sperm cell, and a goat sperm cell.

50. (New) The method of claim 45 wherein the plate has at least *m* wells, wherein *m* is no less than *n* and *m* is at least 2.

51. (New) The method of claim 45 wherein the plate has at least 2 wells.